

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 June 2004 (17.06.2004)

PCT

(10) International Publication Number  
WO 2004/050691 A2

(51) International Patent Classification<sup>7</sup>: C07K 14/16 (74) Agents: DONALD, Heather, June et al.; Spoor & Fisher, P.O. Box 41312, 2024 Craighall (ZA).

(21) International Application Number:

PCT/IB2003/005634

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 4 December 2003 (04.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2002/9830 4 December 2002 (04.12.2002) ZA

(71) Applicants (for all designated States except US): UNIVERSITY OF CAPE TOWN [ZA/ZA]; Bremner Building, Lovers Walk, 7700 Rondebosch (ZA). SOUTH AFRICAN MEDICAL RESEARCH COUNCIL [ZA/ZA]; Francie van Zijl Drive, 7505 Parow (ZA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): JAFFRAY, Ann [ZA/ZA]; 34 Evremonde Road, 7800 Plumstead (ZA). WILLIAMSON, Anna-Lise [ZA/ZA]; 34 Uitvlugt Road, 7405 Pinelands (ZA). RYBICKI, Edward, Peter [ZA/ZA]; 34 Uitvlugt Road, 7405 Pinelands (ZA).

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, TZ, UG, ZM, ZW); Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM); European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR); OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/050691 A2

(54) Title: A METHOD FOR THE PRODUCTION OF HTV-1 GAG VIRUS-LIKE PARTICLES

(57) Abstract: The invention describes a vector including a nucleotide sequence encoding an HTV Gag polypeptide for use in the production of HTV-1 Gag virus-like particles. The vector may be a plant vector, for example, a tobacco mosaic virus vector such as the pBSG1057 vector or a tobacco etch virus vector. The vector may also be an *Agrobacterium tumefaciens* containing a T-derived plasmid construct. Alternatively, the vector may be an insect vector such as a baculovirus vector. HTV-1 Gag virus-like particles are also described, as is the use of the virus-like particles in a vaccine for use in the treatment or prophylaxis of HIV infection in a mammal, the vaccine including virus-like particles of proteins or polypeptides substantially as described above.